

# Quest T-stat Model 201 Lead/Lag Controller

Optimize Operation & Reduce Energy Consumption  
Part Number: 150966-4



The Quest T-stat Lead/Lag Controller is a smart control system designed to replace conventional lead/lag controllers that do not offer wide temperature control windows for advanced optimization of HVAC operation. The T-stat LLC works with most standard HVAC systems whether they have built-in economizers or no economizers to control up to two stages of cooling per HVAC system. The T-stat LLC provides lead/lag operation with automatic switching based upon time interval and a comfort/occupied mode to change the temperature setpoints for a defined time period.

The compact controller includes separate alarm output contacts for high and low temperature alarms and an input to inhibit HVAC operation. The inhibit function can be used to coordinate with separate stand-alone airside economizer systems. The system has a built-in 2-line by 16-character display for status monitoring of the current temperature and operating mode of the HVAC equipment. All setpoints are password protected to prevent unauthorized changes.

## Specifications

**Quest Part number:** 150966-4

**Outputs:** Eight solid state digital outputs designed to switch 24VAC

**Alarm Output:** 2 normally closed relays for high temp and low temp

**Input:** Thermistor temperature sensor  $\pm 1^\circ\text{F}$  ( $0.5^\circ\text{C}$ )  
Dry Contact to inhibit HVAC operation

**Display:** LCD backlit 2-line by 16-alphanumeric character display

**Keypad:** Five-button; directional arrows plus enter button

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## Features

- Controls two HVAC systems for Fan, Cool Stage 1, Cool Stage 2 and Heat.
- Powered from both HVAC's 24VAC transformers.
- Automatic lead change based on time.
- LCD display for current operating mode and shelter temperature readings.
- Comfort mode to allow "Occupied" temperature settings for defined time period.
- High & Low temp alarm contacts.
- Five button keypad for navigation to other status screens.
- Built-in zone temperature.
- The setpoints are factory configured but changeable through password protected menus.

## Default Setpoints

Setpoint Name	Value
Normal mode - Lead cool stage 1 on	80
Normal mode - Lead cool stage 2 on	82
Normal mode - Lag cool stage 1 on	84
Normal mode - Lag cool stage 2 on	86
Normal mode - All cooling off	75
Normal mode - Lead heating on	45
Normal mode - Lag heating on	43
Normal mode - All heating off	50
Comfort mode - Lead cool stage 1 on	76
Comfort mode - Lead cool stage 2 on	78
Comfort mode - Lag cool stage 1 on	80
Comfort mode - Lag cool stage 2 on	82
Comfort mode - All cooling off	71
Comfort mode - Lead heating on	55
Comfort mode - Lag heating on	53
Comfort mode - All heating off	60
Lead Switch time	24 hours
Comfort mode time	1 hour
Lead unit fan operation	Automatic
High Temp Alarm	88
Low Temp Alarm	40

**Mounting:** Wall mount directly or standard single gang electrical box

**Power:** 24VAC

**Enclosure:** 2-piece thermal molded plastic enclosure. All wiring is done on the mounted base and the controller is pull-off

**Ambient Operating Temp:** 23° to 131°F (-5° to 55°C), 0-95% RH non-condensing

**Size:** 5.32"W x 3.5"H x 1"D (135 x 89 x 25 mm)

**Weight:** 0.5 lb. (227 g)

